Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (03-08)
Approved for use through 04/30/2008. OMB 0651-0031
Formation Disclosure Statement (IDS) Filed
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

10725904 **Application Number** Filing Date 2003-12-01 INFORMATION DISCLOSURE First Named Inventor Walton STATEMENT BY APPLICANT Art Unit 2616 (Not for submission under 37 CFR 1.99) **Examiner Name** JAIN, RAJ K Attorney Docket Number 030412

	U.S.PATENTS								
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear			
	1	-4750198		1988-06-07	Harper				
	2	5509003		1996-04-16	Snijders.et al.				
	3	5982327		1999-11-09	Vook et al.				
	4	6351499		2002-02-26	Paulraj et al.				
	5	6363267		2002-03-26	Lindskog et al.	·			
	6	6731668		2004-05-04	Ketchum				
	7	6940917		2005-09-06	Menon et al.				
	8	7006464		2006-02-28	Gopalakrishnan et al.				

(Not for submission under 37 CFR 1.99)

Application Number		10725904				
Filing Date First Named Inventor Walto		2003-12-01				
		ton				
Art Unit		2616				
Examiner Name JAIN		I, RAJ K				
Attorney Docket Number		030412				

			T							
	9	7095709		2006-06	3-22	Walton⊧et al.				
	10	7164669		2007-01-16		Li et al.				
If you wisl	n to a	l Id additional U.S. Pater	ıt citatio	n inform	ation pl	l ease click the	Add button.			
			U.S.P	ATENT	APPLI	CATION PUBI	LICATIONS		`	
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publica Date	ition	Name of Pate of cited Docu	entee or Applicant ment	Relev	s,Columns,Lines where vant Passages or Relev es Appear	
·	1	20020154705				Walton et al.				
	2	20030125040	,			Walton et al.		·		
	3	20040042556		2004-03	3-04	Medvedev et a	ıl.			
If you wisl	h to ac	ı dd additional U.S. Publi	shed Ap	plication	citation	n information p	please click the Ado	d butto	n.	
				FOREIG	GN PAT	ENT DOCUM	ENTS			
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²		Kind Code⁴	Publication Date	Name of Patented Applicant of cited Document		Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T5.
	1	0755090	EP			1997-01-22	Nortel Networks Ltd	i.		
	2	1170879	EP			2002-01-09	Matsushita Electric Industrial Co. , Ltd.			

(Not for submission under 37 CFR 1.99)

Application Number		10725904		
Filing Date		2003-12-01		
First Named Inventor Walto		on		
Art Unit		2616		
Examiner Name JAIN		I, RAJ K		
Attorney Docket Number		030412		

	3	1207635	EP		2002-05-22	Lücent Technologies Inc.		
	4	2300337	GB		1996-10-30	ERICSSON Ge MOBILE COMMUNICATIONS INC	-	
	5	2006-0095576	KR		2006-08-31	Qualcomm, Inc.		
	6	2201034	RU		2003-03-20	TELEFONAKTIEBOLAG ET LM EhRIKSSON		
	7	01076110	WO:		2001-10-11	Qüälcomm, Iric:		
	8	02025853	wo		2002-03-28	IOSPAN Wireless, Inc.		
	9	0207821.1	wo		2002-10-03	Qualcomm, Inc.		
	10	03019984	wo		2003-03-06	Commissariat a L'Energie Atomique		
	11	95030316	wo		1995-11-09	Motorola Inc.		
If you wisl	n to a	dd additional Foreign P				lease click the Add button	l	
			NON-PATE	NT LITE	RATURE DO	CUMENTS		
Examiner Initials* Cite No Cite No Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.								

(Not for submission under 37 CFR 1.99)

Application Number Filing Date		10725904		
		2003-12-01		
First Named Inventor Walte		ton		
Art Unit		2616		
Examiner Name JAIN		N, RAJ K		
Attorney Docket Number		030412		

 ·		
1	INTERNATIONAL SEARCH REPORT-PCT/US04/038198, INTERNATIONAL SEARCH AUTHORITY-EUROPEAN PATENT OFFICE, 04/04/05	
2	ALAMOUTI, S.M., "A Simple Transmit Diversity Technique for Wireless Communications," IEEE Journal on Select Areas in Communications, Vol.16, No.8, October 1998, pgs.1451-1458	
3	CHEN et al., "Novel Space-Time Processing of DS/CDMA Multipath Signal," IEEE 49th, Vehicular Technology Conference, Houston, Texas, May 16-20, 1999, pgs. 1809-1813	
4	CHOI et al., "MIMO Transmit Optimization for Wireless Communication Systems," Proceedings of the First IEEE International workshops on Electronic Design, Piscataway, New Jersey, January 29-31 (2002)	
.5	FUJII MASAAKI, "Pseudo Orthogonal Multibeam Time Transmit Diversity for OFDM-CDMA" pgs.222-226	
6	HAUSTEIN et al., "Performance of MIMO Systems with Channel Inversion," IEEE 55th, Vehicular Technology Conference, Birmingham, Alabama, May 6-9 (2002), pgs. 35-39	
7	HONG et al., "Robust Frequency Offset Estimation for Pilot Symbol Assisted Packet CDMA with MIMO Antenna Systems," IEEE Communications Letters, vol. 6, no. 6:262-264 (June 2002)	
8	JOHAM et al., "Symbol Rate Processing for the Downlink of DS-CDMA Systems", IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, IEEE SERVICE CENTER, PISCATAWAY, US, vol. 19, no. 1, 1 January 2001 (2001-01-01), XP011055296, ISSN: 0733-8716, paragraphs 1, 2, 4, 5.	
9	PAUTLER et al., "On Application of Multiple-Input Multiple-Output Antennas to CDMA Cellular Systems," IEEE 54th, Vehicular Technology Conference Proceedings, Atlantic City, New Jersey, October 7-11 (2001), pgs. 1508-1512	
10	TARIGHAT et al., "Performance analysis of different algorithms for cdma2000 antenna array system and a new multi user beamforming (MUB) algorithm", WIRELESS COMMUNICATIONS AND NETWORKING CONFERENCE, 2000. WCNC. 2000 IEEE E 23-28 SEPTEMBER 2000, PISCATAWAY, NJ, USA, IEEE, vol.1, 23 September 2000 (2000-09-23), pages 409-414, XP010532534, ISBN: 978-0-7803-6596-4, Paragraphs 2, 3.	
11	THEON et al., "Improved Adaptive Downlink for OFDM/SDMA-Based Wireless Networks," IEEE VTS 53rd, Vehicular Technology Conference, Rhodes, Greece, May 6-9, (2001)	

(Not for submission under 37 CFR 1.99)

Application Number		10725904		
Filing Date		2003-12-01		
First Named Inventor Walto		on		
Art Unit		2616		
Examiner Name JAIN,		RAJK		
Attorney Docket Number		030412		

	TUJKOVIC, "High bandwidth efficiency space-time turbo coded modulation", Institute of Electrical and Electronics Engineers, ICC 2001. 2001 IEEE International Conference on Communications, Conference Record, Helsinky, Finland, June 11-14, 2001, IEEE International Conference on Communications, New York, NY: IEEE, US, vol. 1 of 10, 11 June 2001 (2001-06-11), pgs 1104-1109, XP010553500								
	13	ZELST et al., "Space Division Multiplexing (SDM) for OFDM Systems," IEEE 51st, Vehicular Technology Conference Proceedings, Tokyo, Japan, May 15-18 (2000)							
	14		E 802.11a, "Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications: High- eed physical Layer in the 5GHZ Band", September 1999						
If you wis	sh to a	dd add	litional non-patent literature document citation information please click the Add button						
·····			EXAMINER SIGNATURE	••••••					
Examine	r Sign	ature	Date Considered						
			reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a mance and not considered. Include copy of this form with next communication to applicant.						
Standard S 4 Kind of do	T.3). ³ cumen	For Japa hy the	O Patent Documents at <u>www.USPTO.GOV</u> or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO anese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark he in is attached.	ent.					